



PATENT ABSTRACTS OF JAPAN

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B03C 1/00(21) Application number: **10021502**(71) Applicant: **RICOH ELEMEX CORP**

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(72) Inventor: **IKARUGI HIROAKI**(54) **ELECTROSTATIC TYPE AIR CLEANER**

dropping the treating air quantity.

(57) Abstract:

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PROBLEM TO BE SOLVED: To improve dust collection efficiency without requiring the dropping of a treating air quantity by disposing a magnetic field generating section which changes the moving direction of electrified particles by a magnetic field between an ionizing section and a dust collecting section.

SOLUTION: The ionizing section 3 of a dust collecting unit 7 impresses a high voltage on a wire 1 to generate a corona discharge between this wire and a ground electrode 2, thereby electrifying suspended dust 8. The dust collecting section 6 adsorbs the electrified particles 9 by the electric field between a high-voltage electrode flat plate 4 and a ground electrode flat plate 5. The magnetic field generating section is disposed between such ionizing section 3 and the dust collecting section 6 and magnetic force is acted on the electrified particles 9 electrified in the ionizing section 3, by which the electrified particles 9 are moved toward the electric field of the dust collecting section 6. As a result, the electrostatic adsorption in the dust collecting section 6 is accelerated without the need for

